

Appl. No. 09/982,481
Amdt. dated May 26, 2005
Reply to Office action of March 31, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-30. Canceled.

31. (Currently amended) A computer-readable medium having computer-readable program code embodied therein that is adapted to cause a computer to implement a method to form a pixel bar chart comprising a plurality of columns, each column having a plurality of pixels, the method comprising:

determining a width of each of the columns, the width of some columns being different than the width of other columns;

assigning one record to every each of said pixels in said columns; and
applying a variable-selectable color to all of the pixels in all of the columns according to an attribute of said records.

32. (Currently amended) The computer-readable medium of claim 31 wherein said method further comprises:

forming a plurality of pixel bar charts, each cart comprising a plurality of variable width columns, each column containing a variable number of pixels;

assigning a record to a commonly located pixel in each chart; and

applying a variable-selectable color to the pixels in each chart according to an attribute of said records, said attribute being different among the charts.

33. (New) The computer-readable medium of claim 31 wherein applying a selectable color comprises applying a selectable color to all of pixels in all of the columns according to an attribute of said records, wherein the color applied to at least some pixels is different than the color applied to other pixels.

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34. (New) The computer-readable medium of claim 31 wherein each record comprises a plurality of attributes, and said attributes comprise:

at least one dividing attribute,
a first ordering attribute corresponding to a first axis,
a second ordering attribute corresponding to a second axis, and
a visual indicator attribute corresponding to a color.

35. (New) The computer-readable medium of claim 31 wherein assigning one record to each of said pixels comprises sorting said plurality of records by a first dividing attribute, said first dividing attribute corresponding to said first axis, and partitioning said plurality of records into groups according to said first dividing attribute.

36. (New) A method, comprising:

receiving a plurality of records, each record having a plurality of attributes;
determining a width of each of a plurality of columns on a display, the
width of some columns being different than the width of other
columns and each column comprising a plurality of pixels;
assigning one record to each of said pixels in said columns; and
applying a selectable color to each of the pixels in all of the columns
according to an attribute of said records.

37. (New) The method of claim 36 wherein applying a selectable color comprises applying a different color to some pixels as opposed to other pixels.

38. (New) The method of claim 36 wherein said plurality of attributes comprises:

at least one dividing attribute,
a first ordering attribute corresponding to a first axis,
a second ordering attribute corresponding to a second axis, and
a visual indicator attribute corresponding to a color.

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39. (New) The method of claim 36 wherein assigning one record to each of said pixels comprises sorting said plurality of records by a first dividing attribute, said first dividing attribute corresponding to said first axis, and partitioning said plurality of records into groups according to said first dividing attribute.

40. (New) A computer system, comprising:
a bus;
a display device coupled to said bus;
a computer-readable memory coupled to said bus; and
a processor coupled to said bus, said processor for executing a method for arranging data, said method comprising:
receiving said data comprising a plurality of records, each said record having a plurality of attributes;
determining a set of attributes selected from said plurality of attributes, said set of attributes for placement of said plurality of records in a graphically displayable array comprising a plurality of columns, at least one column being of a different width than at least one other column, said graphically displayable array comprising a plurality of adjacent data points, each said data point representing one record of said plurality of records;
arranging said plurality of records to construct said graphically displayable array so that each of said adjacent data points is assigned a record.

41. (New) The computer system of claim 40 wherein said attributes comprise:
at least one dividing attribute,
a first ordering attribute corresponding to a first axis,
a second ordering attribute corresponding to a second axis, and
a visual indicator attribute corresponding to a color.

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42. (New) The computer system of claim 41 wherein arranging said plurality of records comprises sorting said plurality of records by a first dividing attribute, said first dividing attribute corresponding to said first axis, and partitioning said plurality of records into groups according to said first dividing attribute.

43. (New) The computer system of claim 42 wherein arranging said plurality of records comprises:

sorting said records of each group according to said first ordering attribute
and said second ordering attribute; and
applying said visual indicator to each of said plurality of records according
to said visual indicator attribute.
